

IN THE CLAIMS:

Amendments to the Claims

Please amend claims 2 and 8-10 and add the new claim as shown below.

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (previously presented) An optical information recording and reproduction apparatus, comprising:

a setting portion of an optical information medium;

a light source where a plurality of semiconductor laser chips are mounted on an identical surface;

optical convergence means for converging each of a plurality of laser beams radiated from each of laser chips into an optical spot on said optical information medium when the optical information medium is set to said setting portion; and

tracking servo means for moving the optical convergence means in a tracking servo direction perpendicular to a track direction such that the optical spot accurately scans the track of the optical information medium,

wherein a direction of alignment of said plurality of semiconductor laser chips is substantially perpendicular to the tracking servo direction.

2. (currently amended) An optical information recording and reproduction apparatus according to claim 1 that comprises: a first reflection plane that reflects the laser beams radiated from each of ~~a~~the plurality of the semiconductor laser chips; and a second reflection plane that guides the laser beams from the first reflection plane to the optical convergence means,

wherein the first reflection plane is formed on the same plate as the mount surface for the laser chips.

3. (original) An optical information recording and reproduction apparatus according to Claim 2,

wherein the laser beams from the first reflection plane is made to be incident from the tracking servo direction to the second reflection plane, and

a plurality of the semiconductor laser chips are arranged in an inner plane direction parallel to an optical information medium plane.

b4 4. (original) An optical information recording and reproduction apparatus according to Claim 2,

wherein the laser beams from the first reflection plane is made to be incident from the track direction to the second reflection plane, and

a plurality of the semiconductor laser chips are arranged in an inner plane direction perpendicular to the optical information medium plane.

5. (original) An optical information recording and reproduction apparatus according to Claim 1,

wherein photodetecting elements for receiving each of a plurality of the laser beams radiated from each of the laser chips are provided on a surface where said laser chips are mounted.

6. (previously presented) An optical head used in an optical information recording and reproduction apparatus that performs tracking servo to record and reproduces information when an optical spot is radiated on an optical information medium,

wherein the optical head comprises:

a light source on which each of semiconductor laser chips having a plurality of wavelengths is mounted on an identical surface; and

optical convergence means for converging each of a plurality of laser beams radiated from each of the laser chips on said optical information medium as the optical spot, and a direction of alignment of said plurality of semiconductor laser chips is substantially perpendicular to said tracking servo direction.

7. (original) An optical head according to Claim 6, comprising:

a first reflection plane for reflecting the laser beam radiated from each of a plurality of the semiconductor laser chips; and

a second reflection plane for guiding the laser beam from the first reflection plane to the optical convergence means, wherein the first reflection plane is formed on a plate same as the mount surface for the laser chips.

8. (currently amended) An optical ~~information recording and reproduction apparatus~~ head according to Claim 7,

wherein the laser beams from the first reflection plane is made to be incident from the tracking servo direction to the second reflection plane, and

a plurality of the semiconductor laser chips are arranged in an inner plane direction parallel to an optical information medium plane.

9. (currently amended) An optical ~~information recording and reproduction apparatus~~ head according to Claim 7,

wherein the laser beams from the first reflection plane is made to be incident from the track direction to the second reflection plane, and

a plurality of the semiconductor laser chips are arranged in an inner plane direction perpendicular to the optical information medium plane.

10. (currently amended) An optical ~~information recording and reproduction apparatus head~~ according to Claim 6,

wherein a photodetecting element for receiving each of a plurality of the laser beams radiated from each of the laser chips is provided on a surface where said laser chips are mounted.

Claims 11-15 (canceled)

by 16. (new) An optical information recording and reproduction apparatus, comprising:

a setting portion of an optical information medium;

a light source where a plurality of semiconductor laser chips are mounted on an identical surface;

optical convergence means for converging each of a plurality of laser beams radiated from each of laser chips into an optical spot on said optical information medium when the optical information medium is set to said setting portion; and

tracking servo means for moving the optical convergence means in a tracking servo direction perpendicular to a track direction such that the optical spot accurately scans the track of the optical information medium;

wherein a direction of alignment of the optical spots formed on the optical information medium is substantially perpendicular to the tracking servo direction.